

Application No. 10/021,505
Response Dated May 10, 2005
Reply to Office Action of Feb. 10, 2005

PATENT

Agent's Docket No. 12487-US

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:**WE CLAIM:**

Claim 1 (currently amended) A graphical user interface for a network management system equipped with network management logic for managing a communication network via the graphical user interface, the graphical user interface comprising:

- a. ~~network management logic;~~
- b. ~~a human machine interface;~~
- c. ~~a window having at least two view panes displayed displayable simultaneously in on the single human machine graphical user interface window, a first view pane for displaying representations of OSI Layer-3 entities provisioned in the communication network over OSI Layer-2 entities, and a second view pane for selectively and simultaneously displaying representations of OSI Layer-2 entities, the corresponding to at least one OSI Layer-3 entity selected in the first pane entities being provisioned over the OSI Layer-2 entities~~
wherein the combination of the displayed information in the at least two view panes provides for presentation of OSI Layer-2 entities corresponding to selected OSI Layer-3 entities.

Claim 2 (currently amended) A graphical user interface network management system as claimed in claim 1, wherein the network management system is further adapted to comprises means for querying a managed object database storing connectivity information regarding field installed data transport equipment.

Claim 3 (currently amended) A graphical user interface network management system as claimed in claim 2, wherein querying the managed object database[[,]] the network management system is further adapted to comprises means for extracting from the

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managed object database layer-by-layer connectivity information regarding Layer-3 entity representations selected in the first view pane for display in the second view pane.

Claim 4 (currently amended) A graphical user interface network management system as claimed in claim 1, wherein the network management system is further adapted to comprises means for inspecting a containment hierarchy of instantiated manageable entity objects modeling field installed data transport equipment specifying connectivity information.

Claim 5 (currently amended) A graphical user interface network management system as claimed in claim 4, wherein inspecting the containment hierarchy of instantiated managed entity objects the network management system is further adapted to comprise means for extracting from the containment hierarchy of instantiated managed entity objects layer-by-layer connectivity information regarding Layer-3 entity representations selected in the first view pane.

Claim 6 (currently amended) A graphical user interface network management system as claimed in claim 1, wherein the first and second view panes are graphical user interface window further associated with a one of a segmented view window and two corresponding view windows comprises the first view pane for displaying representations of OSI Layer-3 entities provisioned in the communications network over OSI Layer-1 entities, and the second view pane for selectively and simultaneously displaying representations of OSI Layer-1 entities corresponding to at least one OSI Layer-3 entity selected in the first pane.

Claim 7 (currently amended) A graphical user interface for a network management software application comprising:

- a. having network management logic for managing a communications network via the graphical user [[:]]
- b. a human-machine interface for display of connectivity information, the graphical user interface comprising:
 - e. a window having at least two view panes displayable simultaneously in via the single human-machine graphical user interface window, a first view pane for displaying representations of OSI Layer-3 entities provisioned in the communications network over

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OSI Layer-2 entities, and a second view pane for selectively and simultaneously displaying representations of OSI Layer-2 entities, the corresponding to at least one OSI Layer-3 entity selected in the first pane entities being provisioned over the OSI Layer-2 entities, the combination of the displayed information in the at least two view panes provides for presentation of OSI Layer-2 entities corresponding to selected OSI Layer-3 entities.

Claim 8 (currently amended) A graphical user interface network management software application as claimed in claim 7, wherein the network management software application is further adapted to comprises means for querying a managed object database storing connectivity information regarding field installed data transport equipment.

Claim 9 (currently amended) A graphical user interface network management system as claimed in claim 8, wherein querying the managed object database[[,]] the network management software application is further adapted to comprises means for extracting from the managed object database layer-by-layer connectivity information regarding Layer-3 entity representations selected in the first view pane for display in the second view pane.

Claim 10 (currently amended) A graphical user interface network management software application as claimed in claim 7, wherein the network management software application is further adapted to comprises means for inspecting a containment hierarchy of instantiated manageable entity objects modeling field installed data transport equipment specifying connectivity information.

Claim 11 (currently amended) A graphical user interface network management software application as claimed in claim 10, wherein inspecting the containment hierarchy of instantiated manageable entity objects[[,]] the network management software application is further adapted to comprises means for extracting from the containment hierarchy of instantiated manageable entity objects layer-by-layer connectivity information regarding Layer-3 entity representations selected in the first view pane.

Claim 12 (currently amended) A graphical user interface network management software application as claimed in claim 7, wherein the graphical user interface window the first and second view panes are further associated with a one of a segmented view

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window and two corresponding view windows comprises the first view pane for displaying representations of OSI Layer-3 entities provisioned in the communications network over OSI Layer-1 entities, and the second view pane for selectively and simultaneously displaying representations of OSI Layer-1 entities corresponding to at least one OSI Layer-3 entity selected in the first pane.

Claim 13 (new) A method of managing a communications network in a centralized network management context via a graphical user interface, the method comprising steps of:

- a. displaying in a first pane of a single graphical user interface window representations of OSI Layer-3 entities provisioned in the communications network over OSI Layer-2 entities; and
- b. simultaneously and selectively displaying in a second pane of the single graphical user interface window representations of OSI Layer-2 entities corresponding to at least one OSI Layer-3 entity selected in the first pane.

Claim 14 (new) A method as claimed in claim 13, further comprising querying a managed object database storing connectivity information regarding field installed data transport equipment.

Claim 15 (new) A method as claimed in claim 14, wherein querying the managed object database, the method further comprises extracting layer-by-layer connectivity information regarding Layer-3 entity representations selected in the first view pane for display in the second view pane.

Claim 16 (new) A method as claimed in claim 13, further comprising inspecting a containment hierarchy of instantiated manageable entity objects modeling field installed data transport equipment specifying connectivity information.

Claim 17 (new) A method as claimed in claim 16, wherein inspecting the containment hierarchy of instantiated managed entity objects, the method further comprising extracting layer-by-layer connectivity information regarding Layer-3 entity representations selected in the first view pane.

Claim 18 (new) A method as claimed in claim 13, further comprising steps of:

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- a. displaying in the first pane of the single graphical user interface window representations of OSI Layer-3 entities provisioned in the communications network over OSI Layer-1 entities; and
- b. simultaneously selectively displaying in the second pane of the single graphical user interface window representations of OSI Layer-1 entities corresponding to at least one OSI Layer-3 entity selected in the first pane.